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Granular detergent builder compsn. - contg. granules of fine particles of alkali aluminosilicate

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Number of Countries: 001 Number of Patents: 002

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
JP 55048300	A	19800405				198020 B
JP 83035559	B	19830803				198334

Priority Applications (No Type Date): JP 78112195 A 19780914

Abstract (Basic): JP 55048300 A

A compsn. contains granules consisting of fine particles of alkali aluminosilicate having $<1 \mu$ prim. particle size and 70 mg/g (expressed in terms of CaO) combining power for calcium, along with granules consisting of water-swelling or water-soluble substance which exist in the matrix consisting of the aggregated prod. of the fine particles. The substance beign contained in the amt. sufficient to yield <0.35 cc/g pore vol. within a range of 10000-75000 angstrom pore size, and >0.4 cc/g pore volume within the range of 2000-7000 A pore size, and contg. >60 wt.% alkali aluminosilicate having $<4 \mu$ sec. pore size when it is dispersed in water.

Fine particles of the alkali aluminosilicate have diffraction image of x-rays corresp. to A-zeolite; or have 90-160 mg/g (expressed in terms of CaO) combining power for calcium. The water-swelling substance is water-swelling clay or a high polymer water-soluble (in)organic salt; or non-volatile polyhydric alcohol; or anionic, nonionic, or amphoteric surfactant. The water-swelling or water-soluble substance is contained in the amt. sufficient to yield <0.3 cc/g pore volume of pores having 10000-75000 angstrom pore size.

The granular builder compsn. has superior dispersibility of fine particles and causes no scattering of powder dust, has superior fluidity, and is convenient.

Derwent Class: D25; E33

International Patent Class (Additional): C11D-003/14